優先権主張

出 網 国 ドイツ関

出 順 日 /972 年 8 月30日 (P22425/2, 3)



特

許

願(A)

昭和 4 8 年 8 月 X8 日

特許庁長官 斉 嗾 英 雄 殿

1発明の名前

ブンソタコウサン 4 - ヒドロキショ3 - ニトロ安息香酸 セイルウ

アルキルエステルの製法

2. 発明者

住所(喜所) ドイツ国、フランクフルト/マイン、ハインリツヒ・ ブライヒエル・ストラーセ、 40

子オドール・パペンフース

8. 特許出願人

も 京 (氏 名) フアルブウエルケ、ヘキスト、アクテエングゼルシャフト、フォルマルス、マイステル、ルチュウス、ウント、ブリュ

-- ・・・・ ドイツ語

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在 所 東京都港区芝車人民の金田 日春地 (沈の円曜気ビル)

氏 名 并理士 (4013) 江 光

(ほか1名)

1 #2

1. 発明の名称 4 - ヒドロキシ - 5 - ニトロ安

- 単香酸アルキルエステルの製品

2.特許請求の範囲

ニトロ化を約0~60℃、梅に約20~30 でで30~62%の硝酸を用いて行なりことを 特像とする4-ヒドロキン安息香酸アルキルエステルを硝酸でニトロ化することによる4-ヒ ドロキン-5-ニトロ安息香酸アルキルエステルの銀法。

5. 発明の詳細な説明

本発明は4-ヒドロキシ安息香酸アルキルエステルを消酸でニトロ化することにより4-ヒドロキシ-3-ニトロ安息香酸アルキルエステルを製造する改良法に関するものである。

4-ヒドロキシ安息香酸アルキルエステルを 特釈した、約10%の硝酸で高められた温度、 例えば水裕温度で処理するととにより4-ヒドロキシ-3-ニトロ安息香酸アルキルエステル が得られることは公知である(Berichte der 19 日本国特許庁

公開特許公報

①特開昭 49-56944

43公開日 昭49.(1974) 6. 3

②特願昭 48-95806

②出願日 昭47.(1973)8.28

審査請求

未請求 (全2頁)

庁内整理番号

62日本分類

6754 43

16 C624

Deutschen Chemischen Gesellschaft 50,991 (1897) 及び Journal für praktische Chemie (2)45,455(1891) 参照)。

しかしこの方法によれば汚れた4-ヒドロキシ-3-ニトロ安息看限エステルが得られ、これは続いて特製に付さなければならない。

4-ヒドロキシ安息香酸メテルエステルを発 価硝酸を用いて氷酢酸中で、45℃で処理する ととにより、収率68分で間根に4-ヒドロキシー3-ユトロ安息香酸メテルエステルが得ら れる(米国幹許解2647053号参照)。し かしこの方法は収率、純度に関して満足的では かい。更にこの方法を工業的に実施する場合、 氷酢酸中の操作は再生と腐水精製の際に重大な 問題をもたらす。

本発明者はニトロ化を約0~60℃、特に約20~50℃で30~62岁の硝酸を用いて行つた場合、4~ヒドロキシ安息者酸アルキルエステルを硝酸でニトロ化することにより4~ヒドロキシー3~ニトロ安息者酸アルキルエステ

特朗 昭49- 56944 (2)

ルが簡単な方法で且つ卓越した収率で得られる ことをみいだした。

との方法は4~ヒドロキシ安息者酸アルキルエステルを、場合により提問物として、約20~25℃で均够に最硝酸に加え、外部冷却により温度を約20~60℃、程に約20~50℃に保持するようにして実施するのが有利である。1時間提择した後に水で稀釈し、吸引評遇し、中性洗浄し、乾燥する。

して有効成分>996及び融点 7 をじの 4 - ヒドロキシー 5 - ユトロ安息香酸メテルエステル17 7 5 煮量部(906)が得られた。

下記の例け例1に記載の如く実施した。

Mily de
7 SC
900
液状
7 1C
47°C
400
7 5°C
74C
7 2°C

代理人 红 等 先 代理人 红 等 先



のために使用することができる。例えげ予め精製を行り必要なく 4 ~ ヒドロヤシー 3 - アミノ安島香酸エステルへの接触的水素酸加に付することができる。

本発明の方法によれば有機得到の使用をした 並びに其他の特製操作をした4~ヒドロキシー 3~ニトロ安息各限アルキルエステルを簡単で 安価に製造することができ、従つて本法は技術 の若しい豊富化を生するものである。下配の例 はこれを説明するものである。 例1

提携した有効成分 8 2 7 % (4 - ヒドロキシ 安息香酸をジメナルサルフェートで、 PE 5 で エステル化することにより製造した)の4 - ヒドロキシ安息香酸メチルエステル 1 8 3 8 重量 部を操作でに 2 0 ~ 2 5 でで 1 時間の経過にかいて 6 2 5 研設 5 0 4 重量部中に均等に加える。 続いて約 1 時間操作し、水 5 0 6 重量部を添加するととによりエステルを沈要させる。かくし、水で中性洗浄し 6 0 でで乾燥させる。かく

5添附書類の目録

明	細	審	1 通
Æ		15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
委	任	状	1 通
優先	/槍証(明書	1通
願	普副	· 本	1通

6. 前配以外の代理人

住 所 東京都港区芝西久保明舟町15番地(弗の門電気ビル) (電話 03 (502) 1 4 7 6 (代表))

氏名 弁理士(6955) 江 崎 光 上史



中华人民共和国国家知识产权局

邮政编码: 100032 发文日期 北京市西城区金融街 27 号投资广场 B 座 19 层 中国专利代理(香港)有限公司 关立新,邹雪梅 申请号: 2004800174277 申请人:株式会社上野制药应用研究所 发明创造名称: 制备 3-硝基-4-烷氧基苯甲酸的方法 第一次审查意见通知书 97824P (进入国家阶段的 PCT 申请) 1. ☑应申请人提出的实审请求, 根据专利法第 35 条第 1 款的规定, 国家知识产权局对上述发明专利申请 进行实质审查。 □根据专利法第35条第2款的规定,国家知识产权局专利局决定自行对上述发明专利申请进行审查。 2. ☑申请人要求以其在: 2003年 05月 02日为优先权日, JP 专利局的申请日 专利局的申请日 月 年 日为优先权日, 专利局的申请日 年 月 日为优先权日。 3. | 中请人于 月 日提交的修改文件, 不符合专利法实施细则第 51 条的规定。 □申请人提交的下列修改文件不符合专利法第 33 条的规定。 □国际初步审查报告附件的中文译文。 □依据专利合作条约第 19 条规定所提交的修改文件的中文译文。 □依据专利合作条约第 28 条或 41 条规定所提交的修改文件。 4. ☑审查是针对原始提交的国际申请的中文译文进行的。 □审查是针对下述申请文件进行的: 1 3 MAY 2007 □说明书 第 页,按照原始提交的国际申请文件的中文译文: 页,按照国际初步审查报告附件的中文译文: 页,按照依据专利合作条约第28条或41条规定所提交的修改文件; 页,按照依据专利法实施细则第51条规定所提交的修改文件。 □权利要求 第 项,按照原始提交的国际申请文件的中文译文: 第 项,按照依据专利合作条约第19条规定所提交的修改文件的中文译文。 第 项,按照国际初步审查报告附件的中文译文: 第 项,按照依据专利合作条约第28条或41条所提交的修改文件 第 项,按照依据专利法实施细则第51条规定所提交的修 门附图 郛 页,按照原始提交的国际申请文件的中文译文; 第 页,按照国际初步审查报告附件的中文译文: 第 页,按照依据专利合作条约第28条或41条所提。 页,按照依据专利法实施细则第51条规定所提交

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14 4			
	·····································		
編号	31757用下还对几又献(共编 文件号或名称	号在今后的审查过程中继续沿用):	
新明 5 (文件与以右体 catalysis letters	公开日期(或抵触申请的申请日)	
ı	p. 157-163	1993	
2	US3929864 A	1975. 12. 30	
5. 审查的结论性		1975. 12. 30	
☑关于说明书:	LAEVOL:		
申请的内容	区属于专利法第5条规定的7		
	符合专利法第 26 条第 3 款的	规定。	
	符合专利法第 33 条的规定。 翼写不符合专利法实施细则第	* 10 各的期中	
4 M 17 17 17 18	英与个何言专利公头施细则 第	518 余的规定。	
☑关于权利要求			
□权利要求	不具备专利法第 22	条第2款规定的新颖性。	
Z 权利要求	1-5 不具备专利法第 22	条第3款规定的创造性。	
□权利要求 □权利要求		条第4款规定的实用性。	
□ 权利要求 □ 权利要求		规定的不授予专利权的范围。 条第 4 款的规定	
权利要求	不符合专利法第 31	条第上款的规定。	
权利要求	不符合专利法第 33	条的规定。	
权利要求_		田则第 13 条第 1 款的规定。	
■ 权利要求 型权利要求 型权利要求 型权利要求		Ⅱ则第 2 条第 Ⅰ 款关于发明的定义。 ⅢⅢ第 20 条的规定	
权利要求_			
□权利要求	不符合专利法实施约		
□ 权利要求 □	不符合专利法实施约	II则第 23 条的规定。	
1 2-12 (± 10 kg)		A Company of the Comp	
上还结论性	意见的具体分析见本通知书 2性意见,审查员认为:	的正文部分。	
日申请人应抗	3性思见,甲重贝认为: 安照通知书正文部分提出的要	[球] 对由诸文件进行修改	
□申请人应右	E意见陈述书中论述其专利申	『请可以被授予专利权的理由,并对通知书正文部分	中指出的
小符合规定之	1.处进行修改,否则将不能授	予专利权。	
	P没有可以被授予专利权的实	K质性内容,如果申请人没有陈述理由或者陈述理	由不充分,
其申请将被驳	· · · · · · · · · · · · · · · · · · ·		
7. 申请人应注意	东下述事项:		
(1)根据专利法第	第37条的规定,申请人应在收	文到本通知书之目起的肆个月内陈述意见,如果申请	人无正当
理由逾期小答	「复,其申请将被视为撤回。		
(2)甲頃人对具甲 有关规定。	申请的修改应符合专利法第 3	3条的规定,修改文本应一式两份,其格式应符合审	香指南的
	上陈述书和 / 或修改文本应由	(寄或递交国家知识产权局专利局受理处,凡未邮寄	(司)首次公
受理处的文件	「小具备法律效力。		一人心又打
(4)未经预约,申	请人和/或代理人不得前来	国家知识产权局专利局与审查员举行会晤。	
8. 本週知书止文	部分共有 <u>1</u> 页,并附有下方 公文件的复印件共 <u>1</u> 份 4	本附件:	
א העהם בעונים	人工的发展作为。1.76.4	<u> </u>	

审查员: 罗琦(8106) 2006年12月11日

审查部门

化学发明审查部

第一次审查意见通知书正文

申请号: 2004800174277

该申请涉及制备3一硝基一4一烷氧基苯甲酸的方法,现提出如下的审查意见。

- 1. 权利要求1不具备创造性,不符合专利法第22条第3款的规定。对比文件1公开了一种粘土 催化的芳香酸的硝基脱羧反应,并具体公开了以下的技术特征"在不存在粘土进行的空户试验中,对茴香酸与发烟硝酸进行硝化反应,结果仅获得了产品3—硝基一4—甲氧基苯甲酸"(参见对比文件1的159页第3—8行,表1);对比文件2公开了一种4一羟基一3—硝基苯甲酸烷基酯的制备方法,并具体公开了以下的技术特征"将4—羟基苯甲酸烷基酯与硝酸进行反应制备4一羟基一3—硝基苯甲酸烷基酯,其中硝化反应在0—60℃下进行,硝酸浓度为30—62%"(参见对比文件2的权利要求,实施例1—10)。由此可见,该权利要求区别于对比文件1和对比文件2的特征在于"硝酸与4—烷氧基苯甲酸的用量",这区别并没有给该发明带来意想不到的效果。因为虽然对比文件2的反应物是4—羟基苯甲酸烷基酯,而不是4一烷氧基苯甲酸,但是由于羟基和烷氧基都是邻位定位基,硝化反应时硝基的取代位置相同,另外所属技术领域的普通技术人员经过重复试验便可获得硝酸与4一烷氧基苯甲酸的用量比,因此在对比文件1的启示和教导下,结合对比文件2,得出该权利要求所要求保护的技术方案,对所属技术领域的技术人员来说是显而易见的,而且它们的结合没有产生预料不到的技术效果,因此该权利要求不具备突出的实质性特点和显著的进步,因而不具备创造性。
- 2. 从属权利要求2-5加入的附加技术特征并没有给该发明带来意想不到的效果,因此在对比文件1的启示和教导下,结合对比文件2,得出上述权利要求所要求保护的技术方案,对所属技术领域的技术人员来说是显而易见的,而且它们的结合没有产生预料不到的技术效果,因此上述权利要求不具备突出的实质性特点和显著的进步,因而不具备创造性。

该申请还存在下述缺陷:

权利要求5中的特征与说明书中的相应描述(说明书第2页第32行~第3页第1行)不一致,因此说明书不符合专利法实施细则第18条第1款(3)的规定。申请人应当对上述缺陷行修改。

基于上述理由,该申请的独立权利要求以及从属权利要求都不具备创造性,同时说明书中也没有记载其他任何可以授予专利权的实质性内容,因而即使申请人对权利要求进行重新组合和/或根据说明书记载的内容作进一步的限定,该申请也不具备被授予专利权的前景。如果申请人不能在本通知书规定的答复期限内提出表明该申请具有创造性的充分理由,该申请将被驳回。

审查员: 罗玲

代码: 8106

·CPCH0563823P

Patent Office of the People's Republic of China

Address: Receiving Section of the Chinese Patent Office, No. 6 Tucheng Road West, Haidian District, Beijing. Postal code: 100088

Applicant	3881		Seal of Examiner	Date of Issue
Agent	China Patent Agent (H.I	K.) Ltd.		December 29, 2006
Patent Application No.	200480017427. Applica Date	April 27, 2004	Exam Dept.	
Title of PRO	CESS FOR PRODUCIN	IG 3-NITRO-4-ALKO	XYBENZO	IC ACID

First Office Action

(PCT application entering into the national phase)

 ✓ Under the provision of Art. 35, para. 1 of the Patent Law, the examiner has made an examination as to substance of the captioned patent application for invention upon the request for substantive examination filed by the applicant on
□ Under the provision of Art. 35, para. 2 of the Patent Law, the Chinese Patent Office has decided to conduct an examination of the captioned patent application for invention on its own initiative.
2. 🗹 The applicant requests that
the filing date <u>May 2, 2003</u> at the <u>JP</u> Patent Office be taken as the priority date of the present application,
the filing date at the Patent Office be taken as the priority date of the present application,
the filing date at the Patent Office be taken as the priority date of the present application.
3. The following amended documents submitted by the applicant cannot be
accepted for failure to conform with Art. 33 of the Patent Law:
☐ the Chinese version of the annex to the international preliminary examination report.
□ the Chinese version of the amended documents submitted according to the
provision of Art. 19 of the Patent Cooperation Treaty.
\square the amended documents submitted according to the provision of Art. 28 or Art. 41
of the Patent Cooperation Treaty.

9016

Implementing Regulations of the Patent Law. See the text portion of this Office Action for detailed reasons why the amendment cannot be accepted. 4.

Examination is conducted on the Chinese version of the initially-submitted international application. ☐ Examination is conducted on the following document(s): □ page ____ of the description, based on the Chinese version of the initiallysubmitted international application documents; page _____ of the description, based on the Chinese version of the annex to the international preliminary examination report; page _____ of the description, based on the amended documents submitted according to the provision of Art. 28 or Art. 41 of the Patent Cooperation Treaty; page _____ of the description, based on the amended documents submitted according to the provision of Rule 51 of the Implementing Regulations of the Patent Law. \square claim(s) _____ , based on the Chinese version of the initially-submitted international application documents; claim(s) _____, based on the Chinese version of the amended documents submitted according to the provision of Art. 19 of the Patent Cooperation Treaty; claim(s) _____, based on the Chinese version of the annex to the international preliminary examination report; claim(s) _____, based on the amended documents submitted according to the provision of Art. 28 or Art. 41 of the Patent Cooperation Treaty; claim(s) _____, based on the amended documents submitted according to the provision of Rule 51 of the Implementing Regulations of the Patent Law. ☐ Fig(s) ______, based on the Chinese version of the initially-submitted international application documents; Fig(s) _____, based on the Chinese version of the annex to the international preliminary examination report; Fig(s) _____, based on the amended documents submitted according to the provision of Art. 28 or Art. 41 of the Patent Cooperation Treaty; Fig(s) _____, based on the amended documents submitted according to the provision of Rule 51 of the Implementing Regulations of the Patent Law.

5. The following reference document(s) is/are cited in this Office Action (its/their serial

2

9016

the amended documents submitted according to the provision of Rule 51 of the

·number(s) will continue to be used in the subsequent course of examination):

Serial No.	Number or Title(s) of Document(s)	Date of Publication (or filing date of interfering application)
1	Catalysis letters, vol.21,p157-163	1993
2	US3929864A	December 30, 1975

6. Concluding comments on the examination:

☑ On the description:
☐ What is stated in the application comes within the scope of that no patent right shall be granted as prescribed in Art. 5 of the Patent Law.
\Box The description is not in conformity with the provision of Art. 26, para. 3 of the
Patent Law.
☐ The description is not in conformity with the provision of Art. 33 of the Patent Law.
☑ The drafting of description is not in conformity with the provision of Rule 18 of the Implementing Regulations.
☑ On the claims:
\square Claim(s) come(s) within the scope of that no patent right shall be granted
as prescribed in Art. 25 of the Patent Law.
□ Claim(s) has/have no novelty as prescribed in Art. 22, para. 2 of the Paten
Law.
\square Claim(s) <u>1-5</u> has/have no inventiveness as prescribed in Art. 22, para. 3 o the Patent Law.
☐ Claim(s) has/have no practical applicability as prescribed in Art. 22, para 4 of the Patent Law.
□ Claim(s) is/are not in conformity with the provision of Art. 26, para. 4 of the Patent Law.
Claim(s) is/are not in conformity with the provision of Art. 31, para. 1 of the
Patent Law.
\square Claim(s) is/are not in conformity with the provisions of Rule 20 of the
Implementing Regulations.
□ Claim(s) is/are not in conformity with the provision of Art. 9 of the Paten Law.
□ Claim(s) is/are not in conformity with the provision of Rule 23 of the

See the text portion of this Office Action for detailed analysis of the above

ccording d patent
mity with wise, no ent right
ervations nout any net, said

(2) The amendment made by the applicant to said application should be in conformity with the provision of Art. 33 of the Patent Law, the amended text should be in duplicate and its form should conform with the related provisions of the Guide to

(3) If no arrangement is made in advance, the applicant and/or the agent shall not

(4) The observations and/or amended text should be sent to the Receiving Section of the Chinese Patent Office by mail or by personal delivery, if not sent to the Receiving Section by mail or by personal delivery, the document(s) will have no legal effect.

9. This Office Action consists of the text portion totalling 2 page(s) and of the

 \square _ _ _ copy(copies) of the reference document(s) totalling _ 4 _ page(s).

come to the Chinese Patent Office to have an interview with the examiner.

Examination.

following attachment(s):

9016

Appl No: 200480017427.7

Your Ref: 545728

Our Ref: CPCH0563823P

Text of the First Office Action

This application relates to the process for producing 3-nitro-4-alkoxybenzoic acid. After examination, the examiner makes the following comments.

1. Claim 1 is not inventive, and is thus contrary to the provision of Article 22, para.3 of the Patent Law. D1 discloses a nitro decarboxylic reaction of aromatic acid catalyzed by clay and describes specifically the following technical feature. "In the blank test wherein clay is absent, nitration is performed on anisic acid and fuming nitric acid, and the product 3-nitro-4-methoxybenzoic acid is obtained" (see lines 3-8 on page 159 and Table 1 of D1). D2 discloses a process for preparing 4hydroxy-3-nitrobenzoic acid alkyl esters, and describes specifically the following technical feature. "Preparing 4-hydroxy-3-nitrobenzoic acid alkyl ester by nitration of 4-hydroxybenzoic acid alkyl esters with nitric acid, wherein nitration is carried out at about 0°-60° with the aid of nitric acid having a strength of 30-62%" (see the claims and Examples 1-10 of D2). It can be seen that claim 1 differs from D1 and D2 in the "amount of nitric acid and 4-alkoxybenzoic acid". However, this difference does not bring this invention any unexpected effects. The reactant of D2 is 4hydroxybenzoic acid alkyl esters instead of 4-alkoxybenzoic acid, but both hydroxy and alkoxy are ortho orientation groups, and the substitution position of nitro is the same when nitration is performed. In addition, the person skilled in the art can obtain the amount ratio of nitric acid and 4-alkoxybenzoic acid after repeated tests. Therefore, it is obvious for the person skilled in the art to obtain the technical solution of claim 1 on the basis of the motivation and teaching of D1 in combination with D2. Moreover, the combination thereof does not produce any unexpected technical effects. Accordingly, claim 1 has neither prominent substantive features nor notable progress, and is not

inventive.

2. The additional technical features of dependent claims 2-5 do not bring any unexpected effects to this invention. Therefore, it is obvious for the person skilled in the art to obtain the technical solutions of said claims on the basis of the motivation and teaching of D1 in combination with D2. Moreover, the combination thereof does not produce any unexpected technical effects. Accordingly, said claims have neither prominent substantive features nor notable progress, and are not inventive.

This application still has the following defect.

The technical feature of claim 5 is inconsistent with the corresponding disclosure contained in the description (lines17-21 on page 5 of the description). Therefore, the description is contrary to the provision of Rule 18, para.1 (3) of the Implementing Regulations of the Patent Law. The applicant should amend said defect.

For the above-mentioned reasons, none of the independent claims and dependent claims of the application has inventiveness. Meanwhile, the description does not disclose any other substantive contents that may be granted patent rights either. Therefore, the application will not have the prospect of being granted patent rights even if the applicant reorganizes and/or further defines the claims according to the contents described in the description. The application will be rejected if the applicant fails to state sufficient reasons to demonstrate the inventiveness of the application within the time limit for response as prescribed in the Office Action.

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